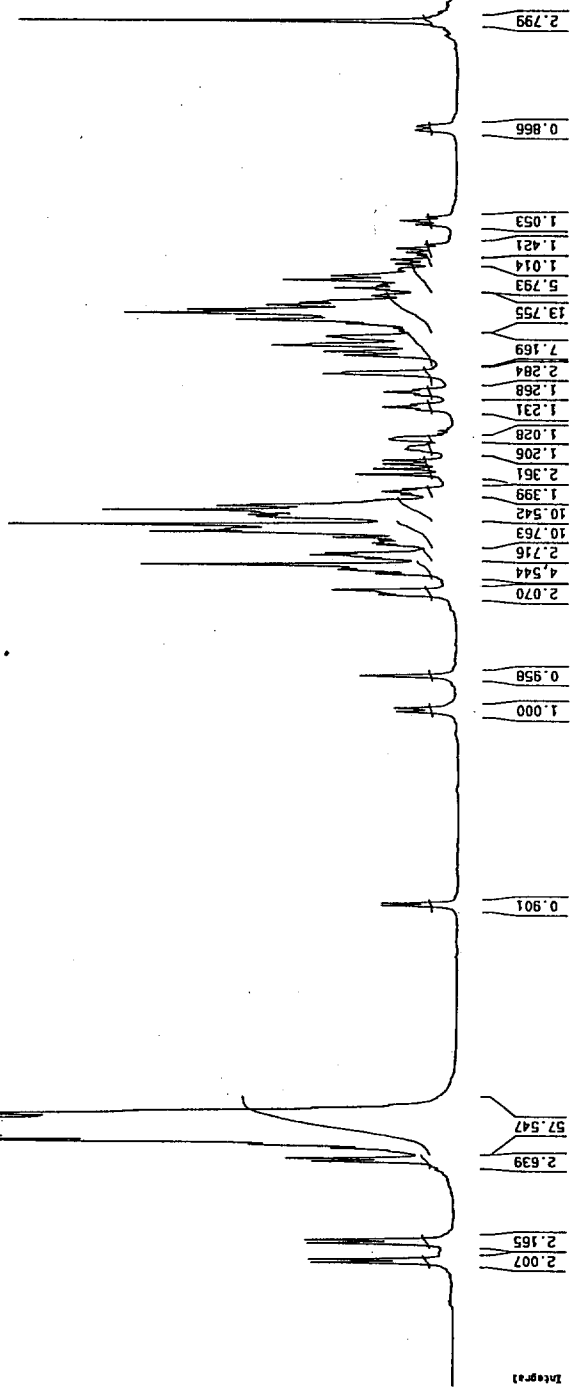
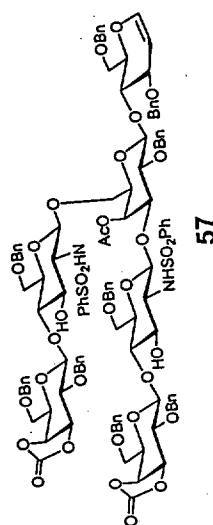
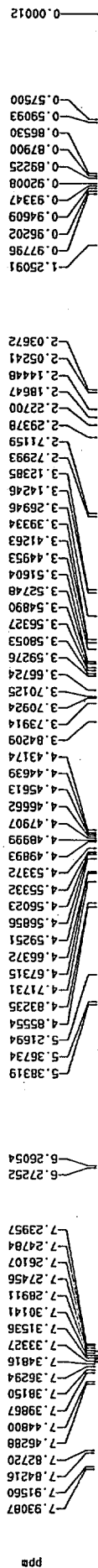
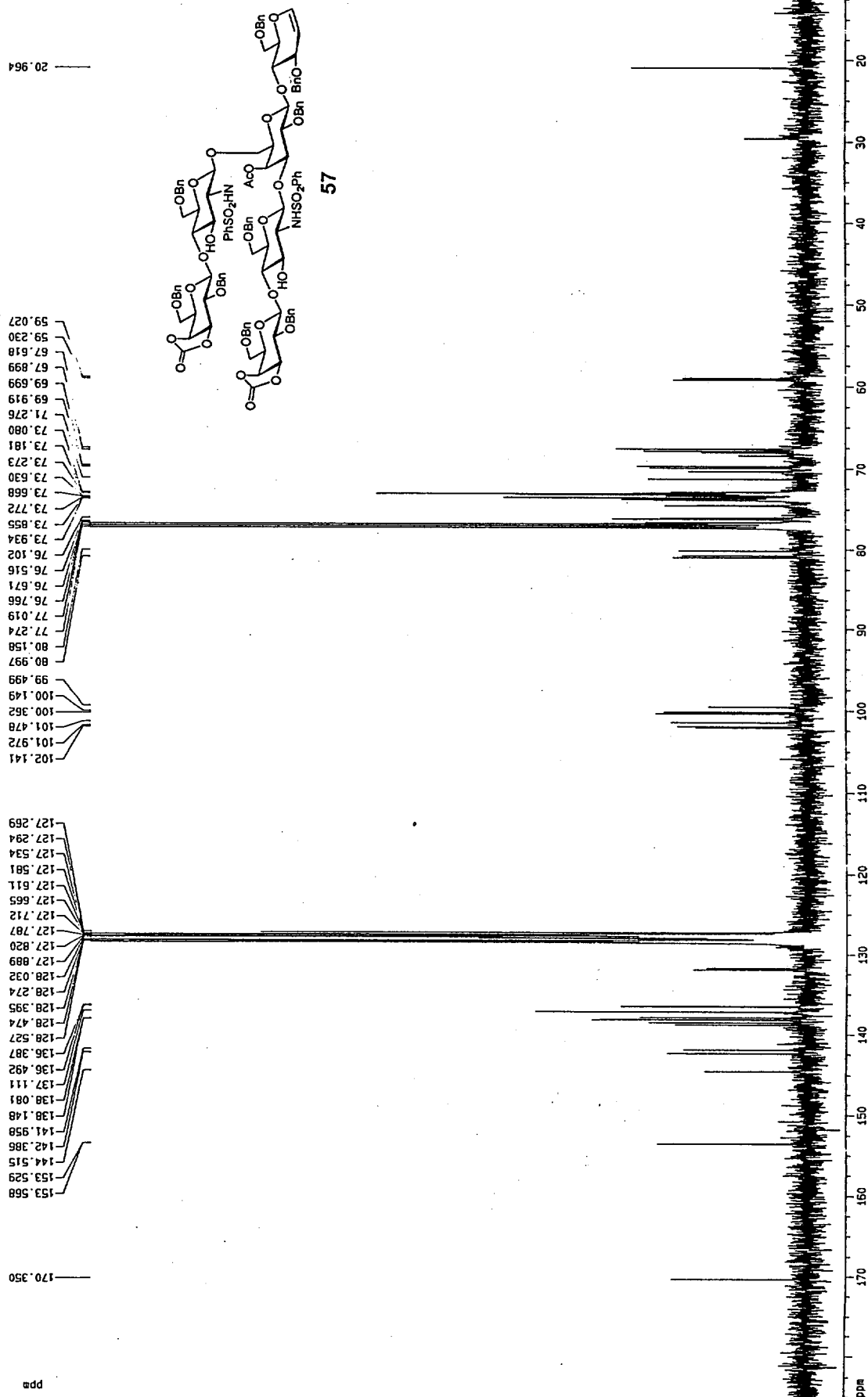


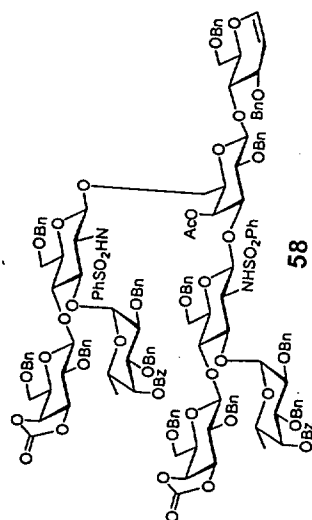
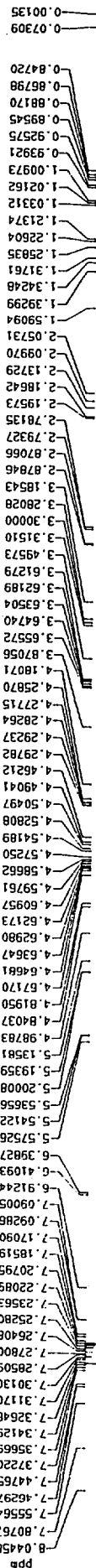
HKim DRX500 minor N3 hexa w/o TES w/ OAC



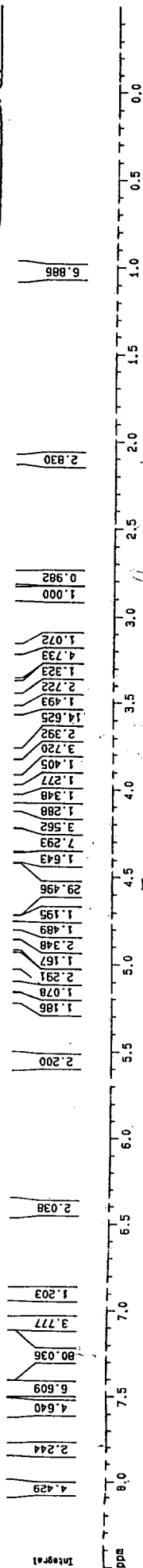
HKim DRX500 N3 minor hexa w/ OAc w/o TES

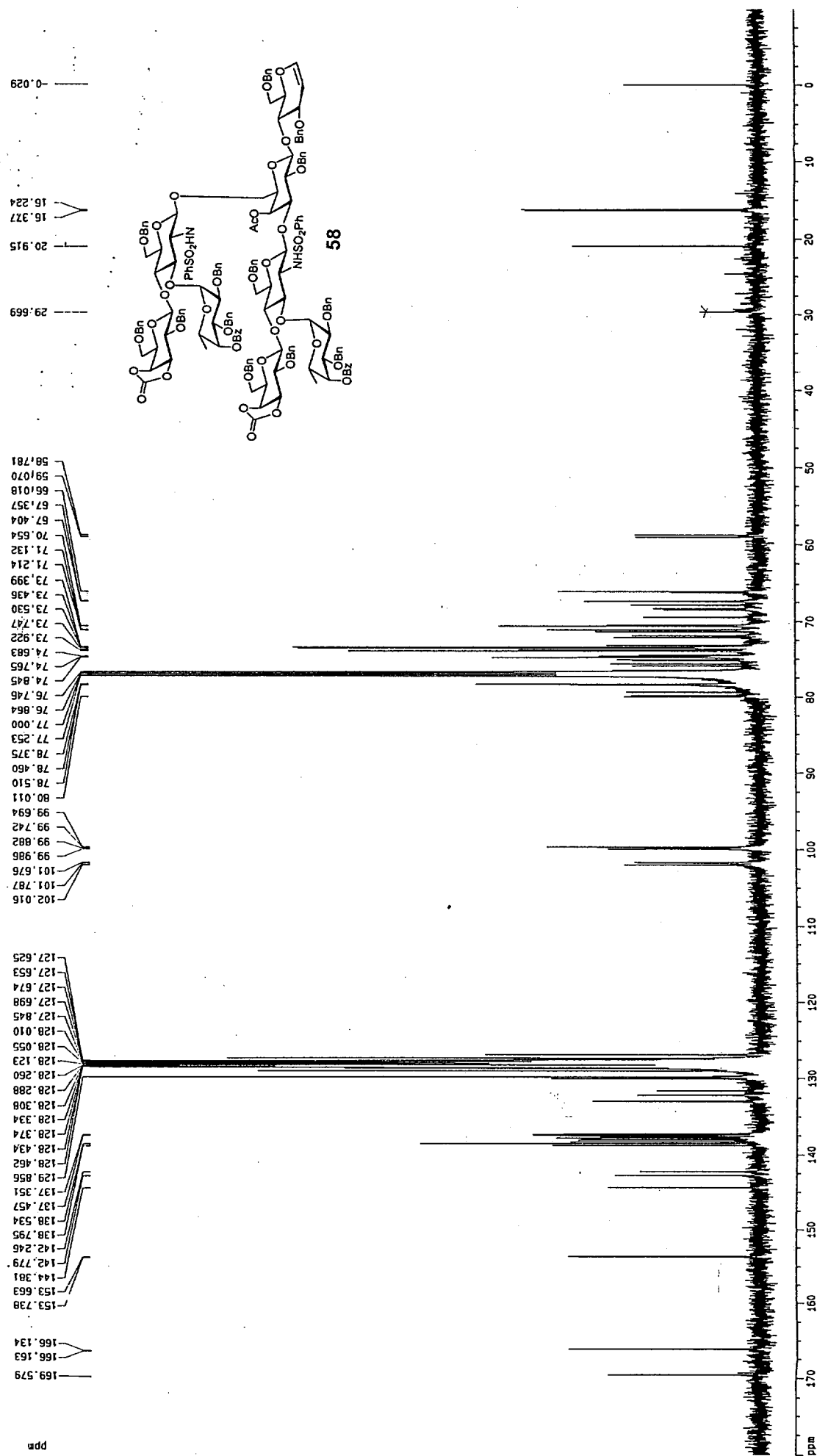


Difucosylation for N3 spot (B) DRX-500 proton No.104 Apr. 13, 1998

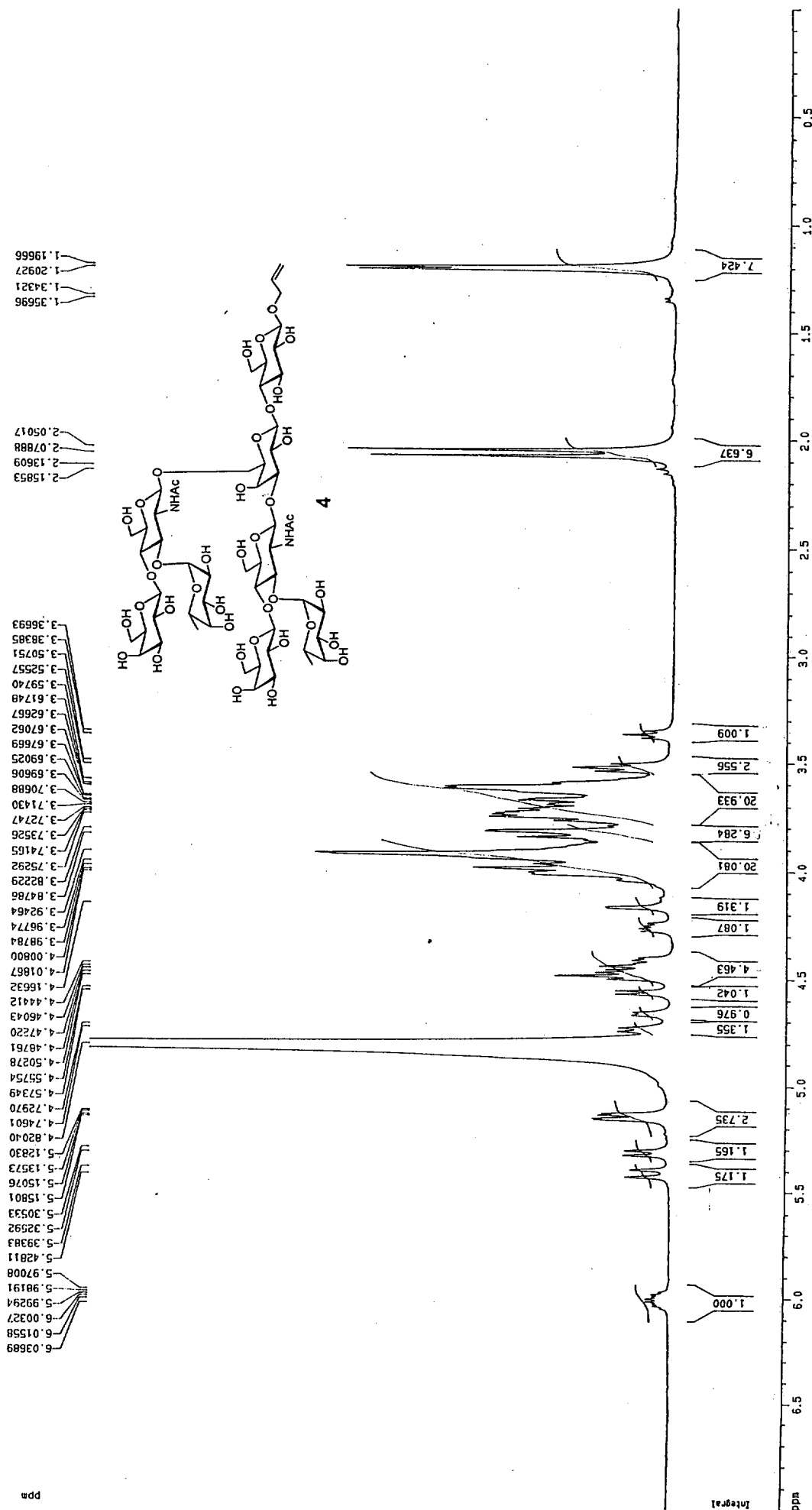


58





minor N3-allyl (H-112 in 500MHz) Jun. 26, 1998



Minor N3 allyl (C13 in 500MHz) Jun. 28, 1998

102

ppm

133.633

119.100

103.436

102.870

102.209

102.126

101.342

101.176

99.004

98.967

82.171

79.377

75.730

75.470

75.270

75.199

75.100

75.029

74.810

73.709

73.202

72.811

72.259

71.401

71.036

70.174

69.572

68.699

68.056

67.087

67.051

61.857

60.385

59.983

56.317

56.006

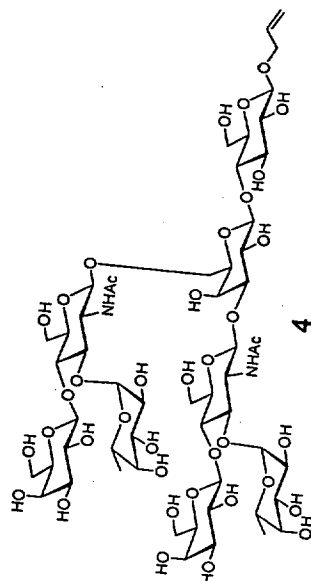
49.209

22.859

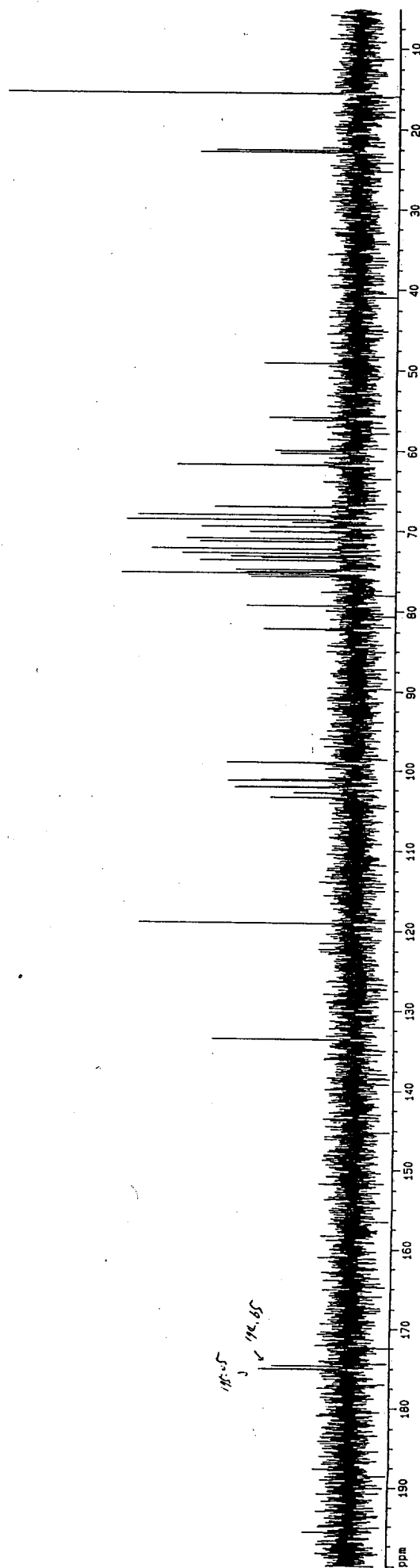
22.596

22.264

15.650



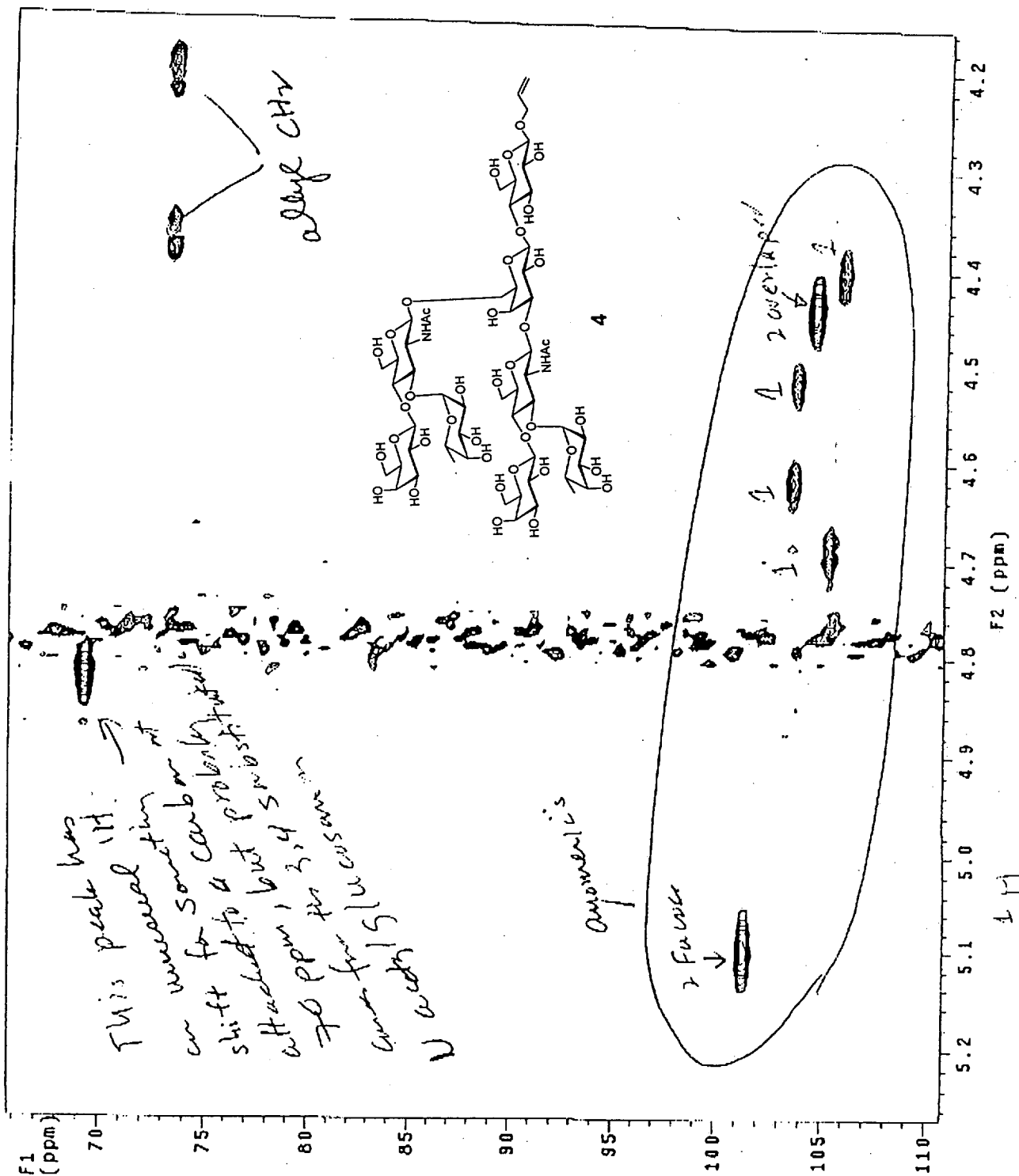
174.65
175.5



SENT-BY: BSBE 5;

4- 5-98 11:24AM; 6126245121 =>

#2



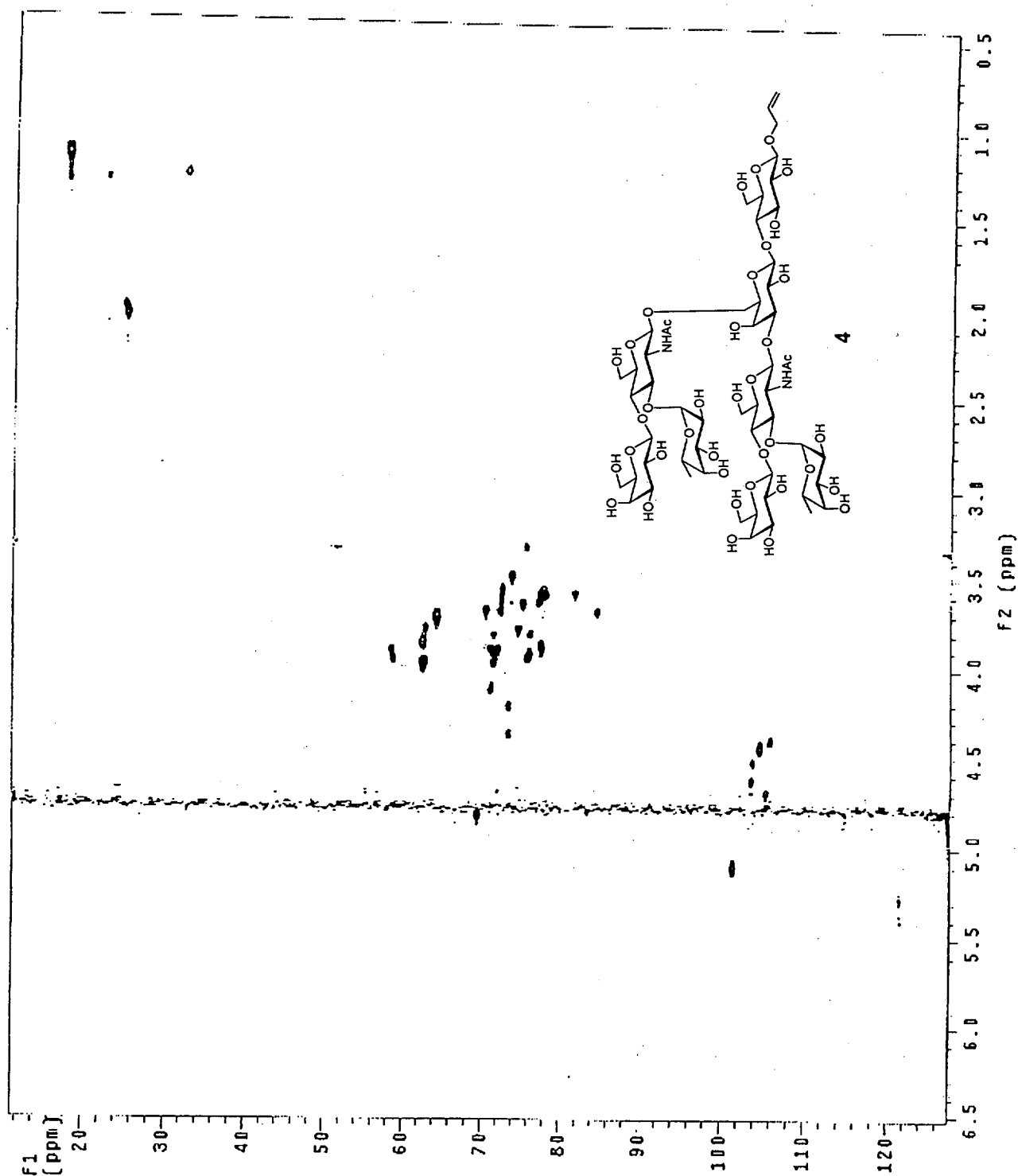
13C

113

SENT BY: BSBE 5;

4- 5-98 11:25AM; 6126245121 =>

#4/8

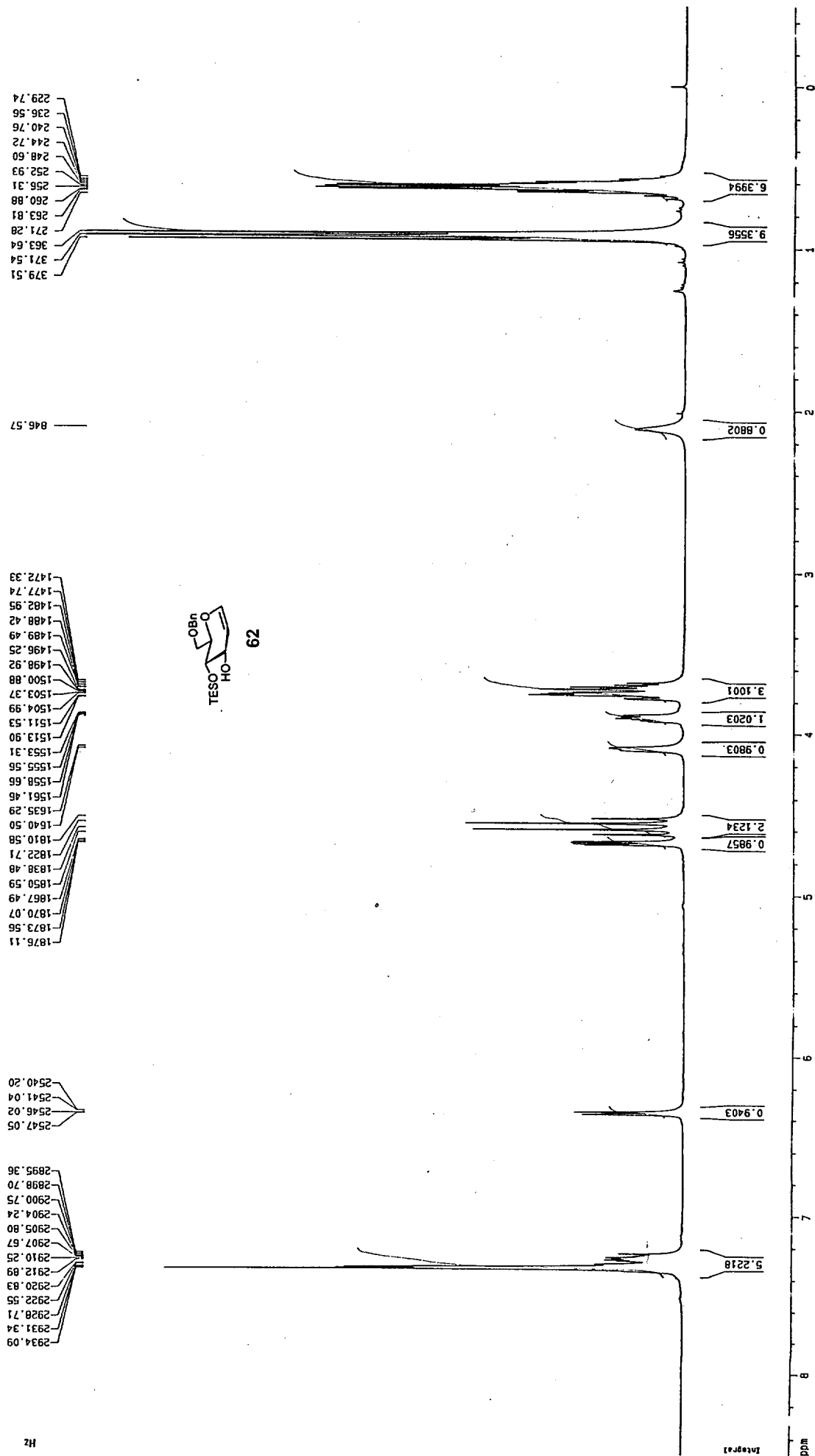


U3

11



HKim AMX400 4-TES-6-Bn gluca1



HKim AMX400 4-TES-6-Bn glucal

6.715
4.899

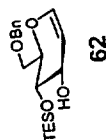
77.961
77.317
76.999
76.680
73.396
71.477
69.955
68.952

102.715

128.187
127.643
127.503

137.694

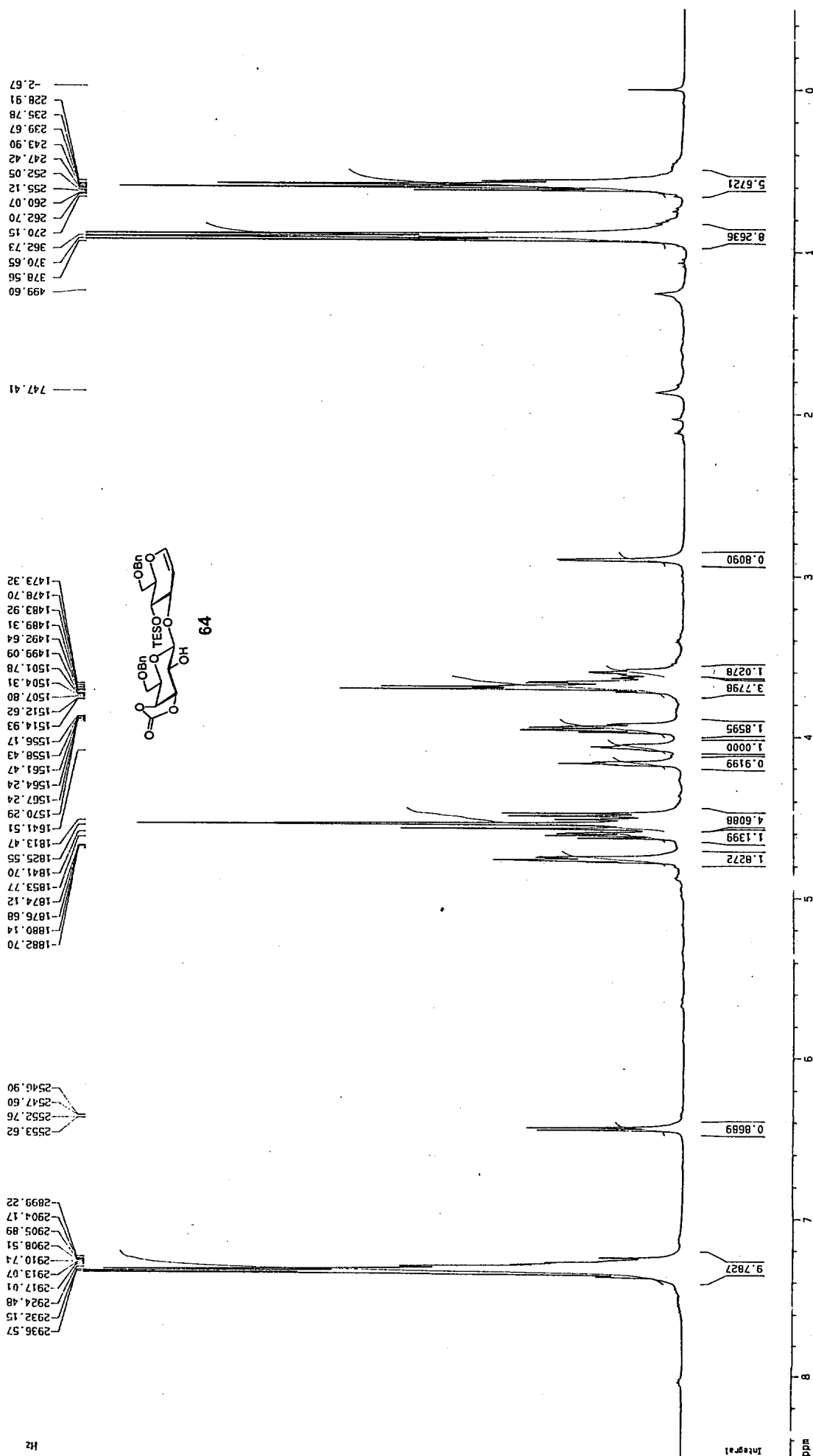
144.257



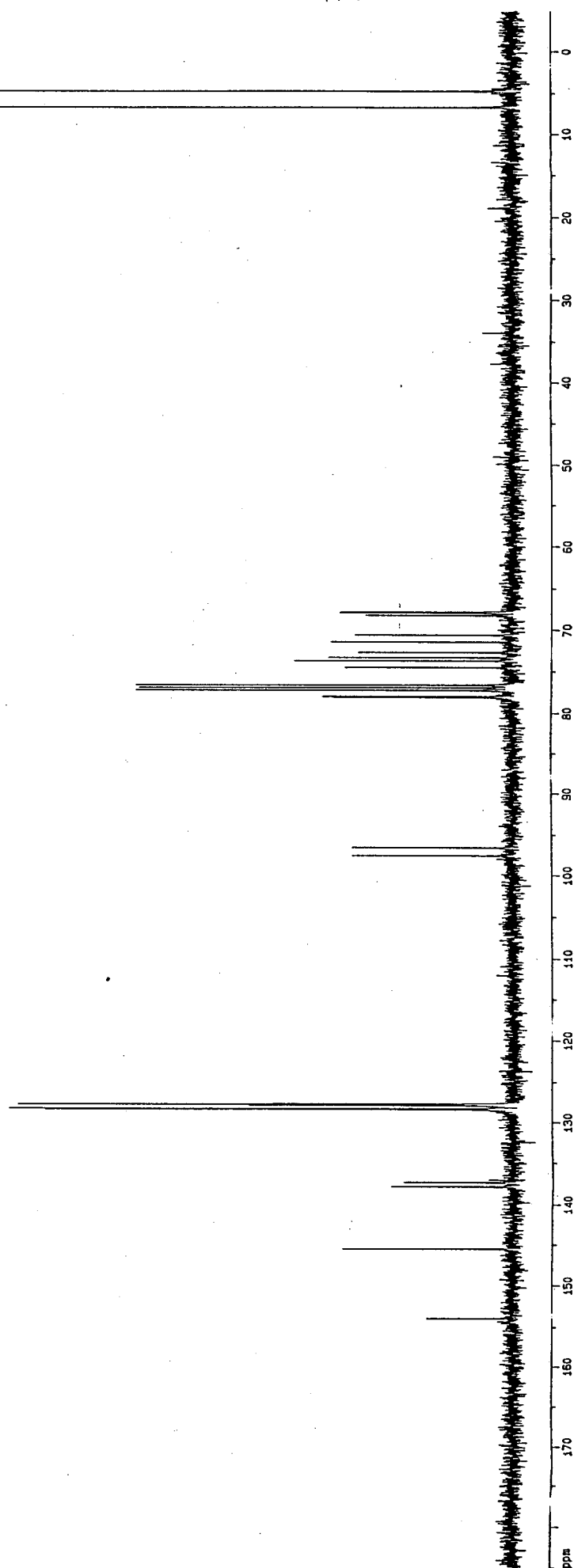
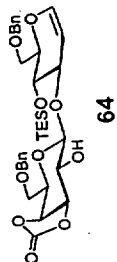
ppm

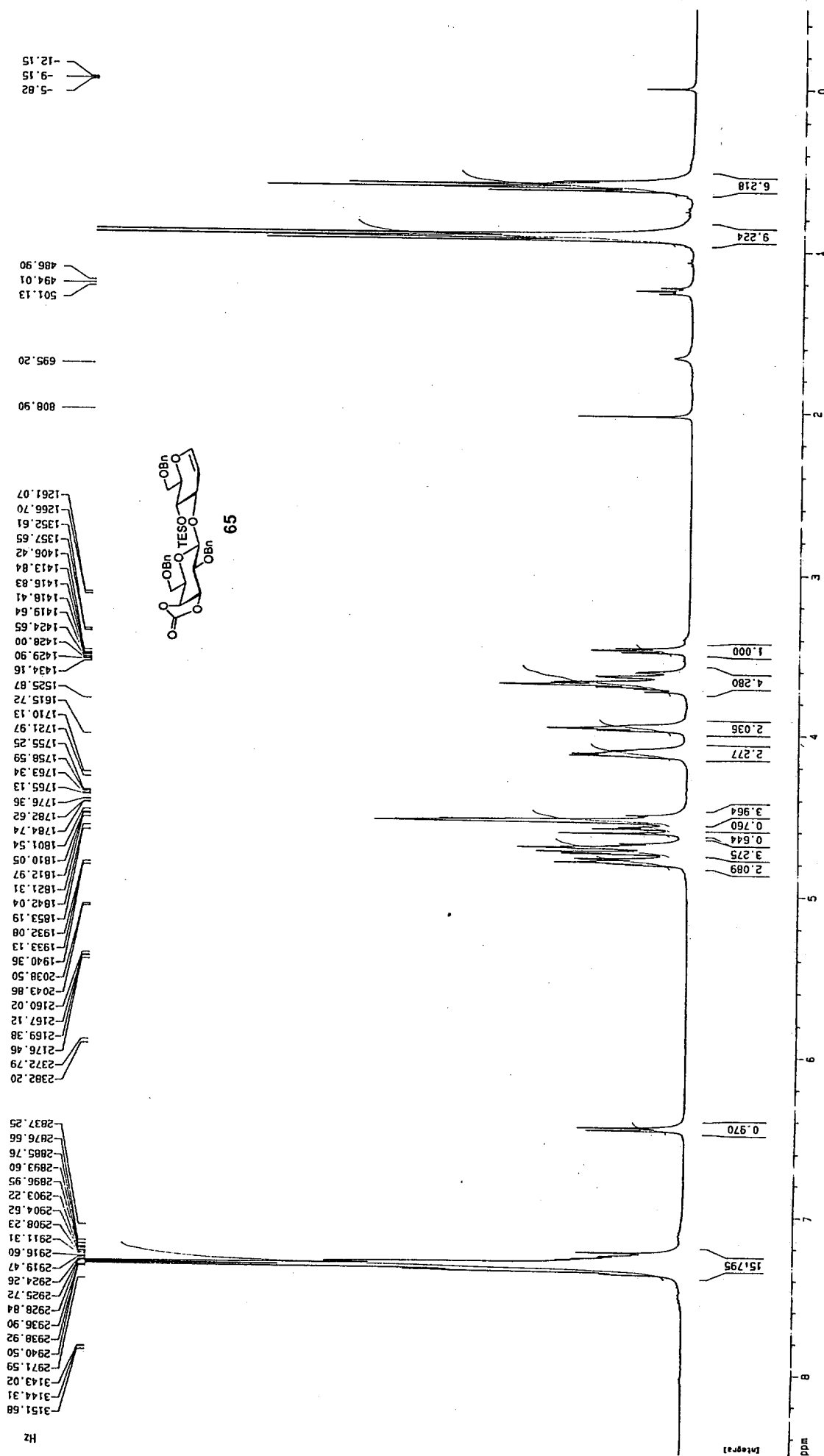
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 ppm

HK1m AMX400 major N3 disaccharide after 1+1



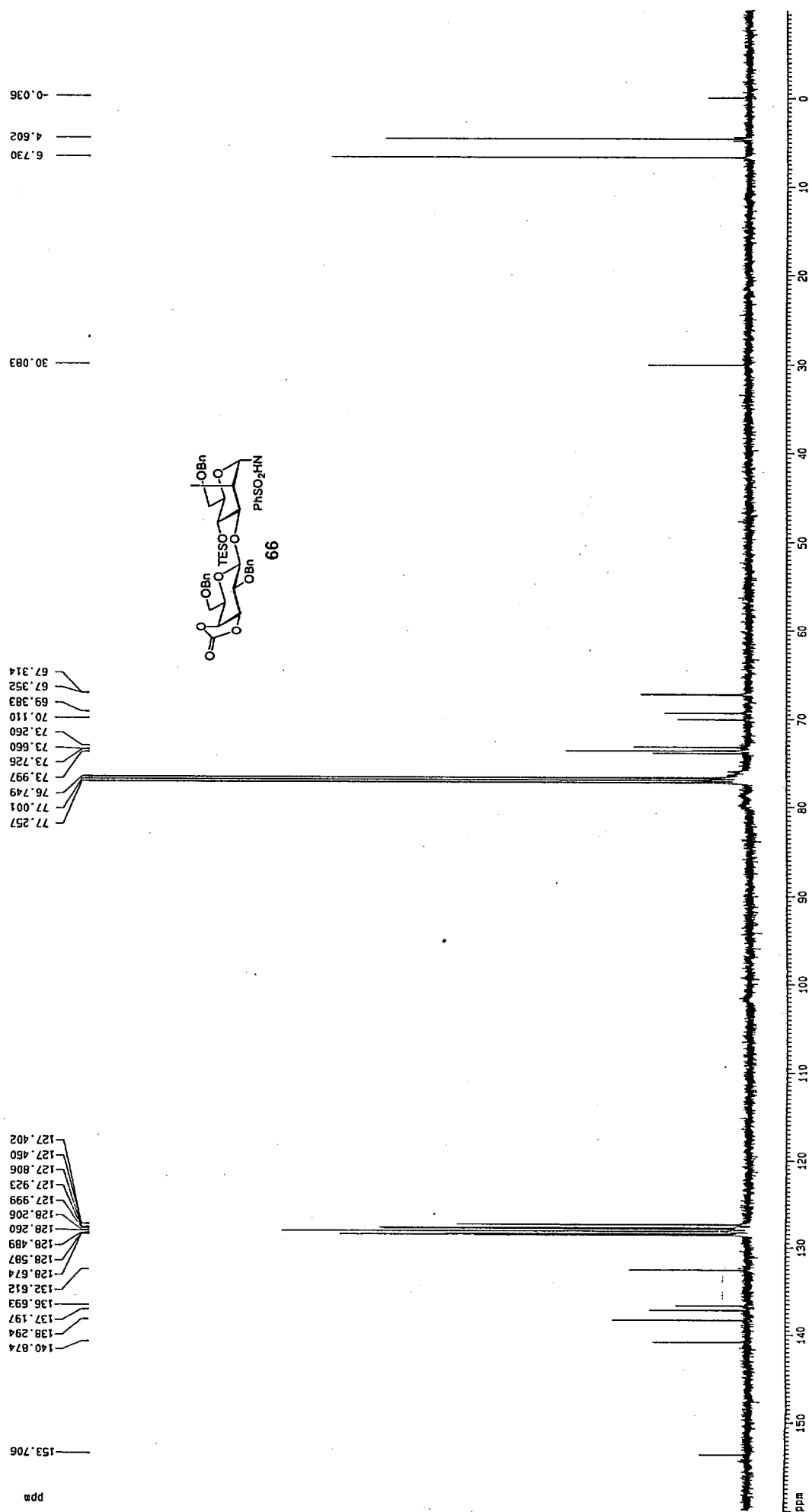
HK1m AMX400 major N3 disaccharide after 1+1







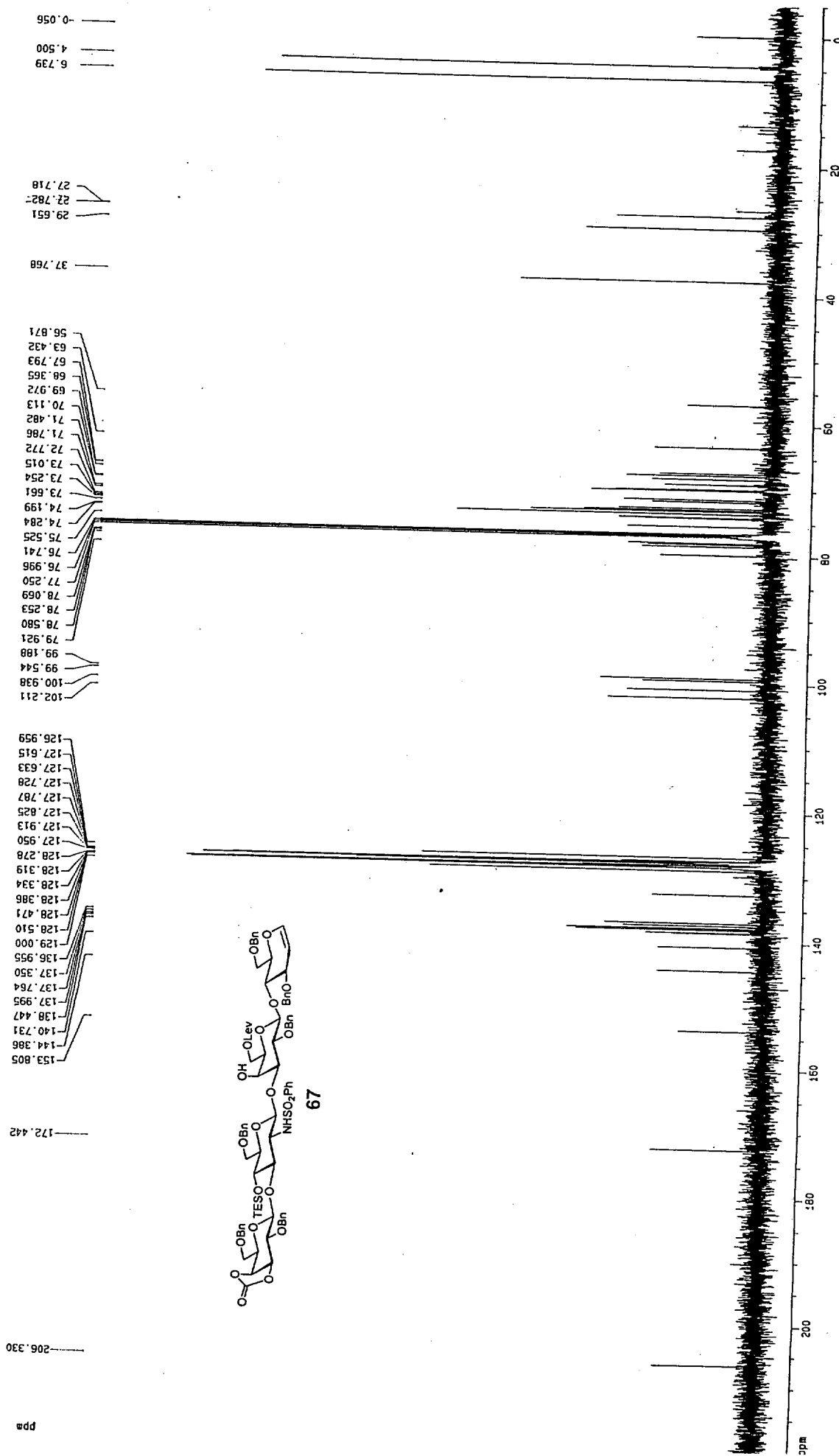
¹³C-NHSO₂Ph for 'Lea C-115 in 125 MHz, Sep. 23, 1998



Direct roll-over (2+2) (A) for major N3 in 500MHz, Jul. 13, 1998

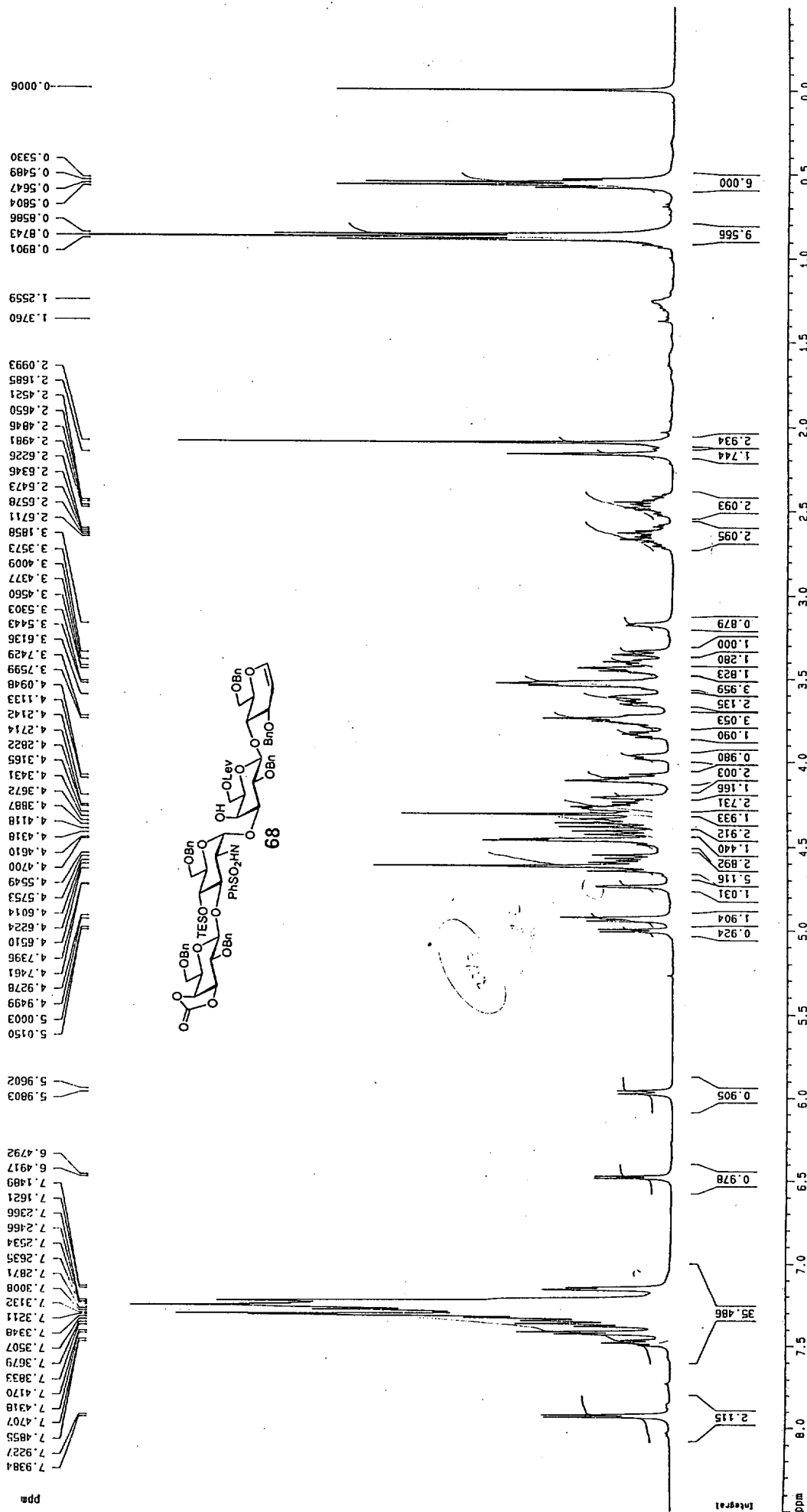


Direct roll-over (A) for major N3 in 125 MHz (C-106) Jul. 14, 1998

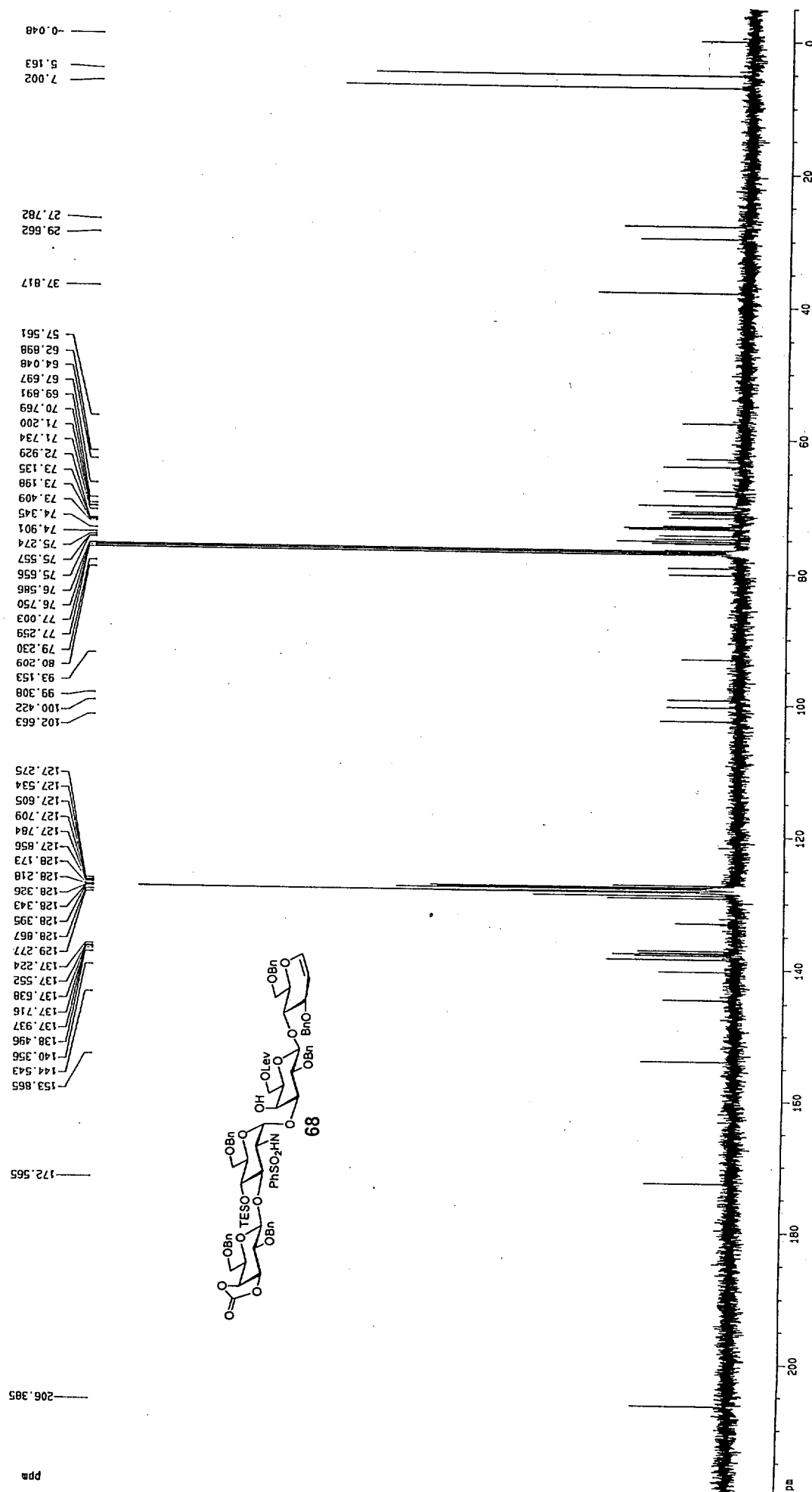


H-114 (-0.0)

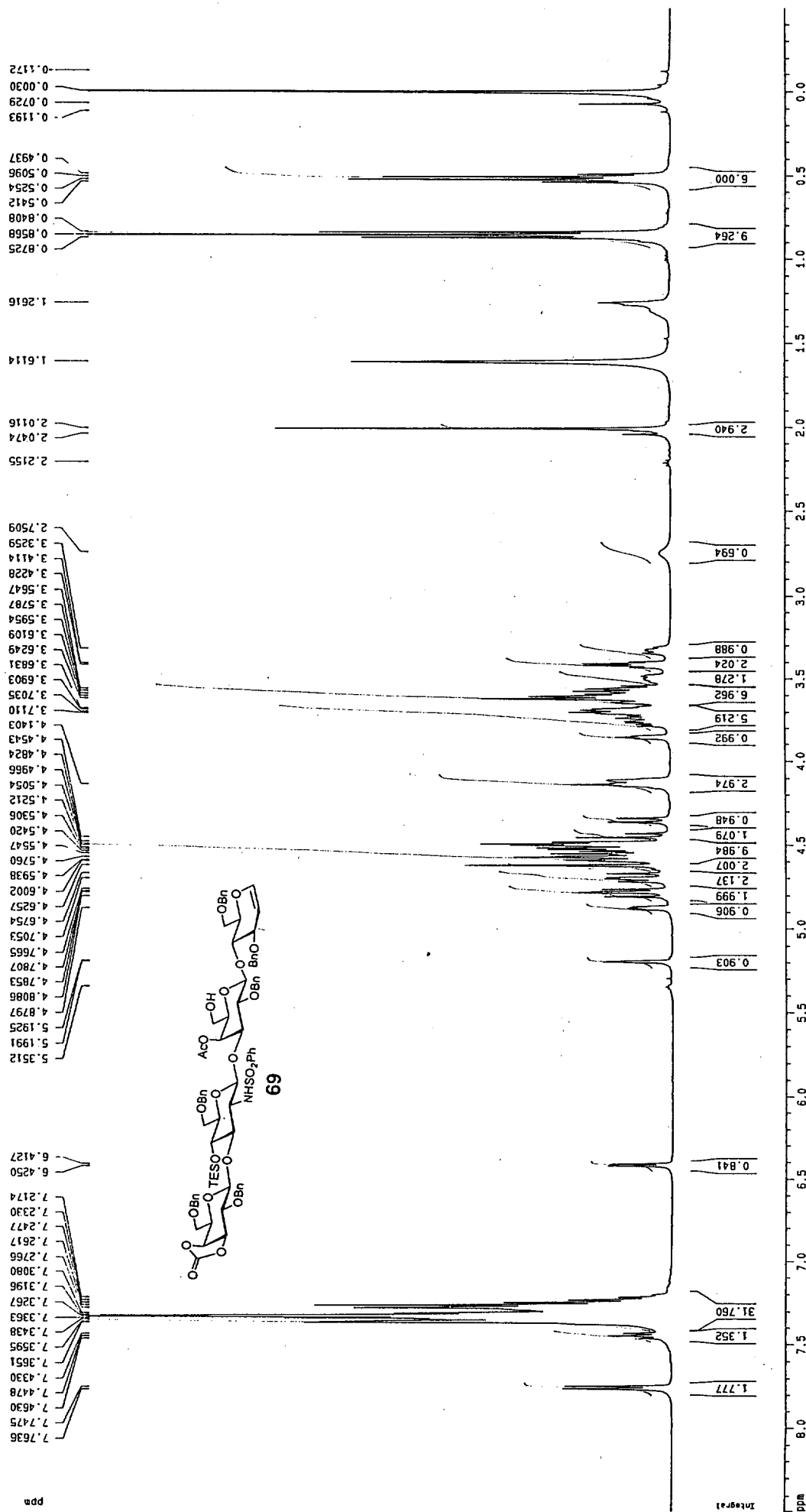
Direct roll-over (2+2) (B) for major N3 in 500MHz, Jul. 13, 1998



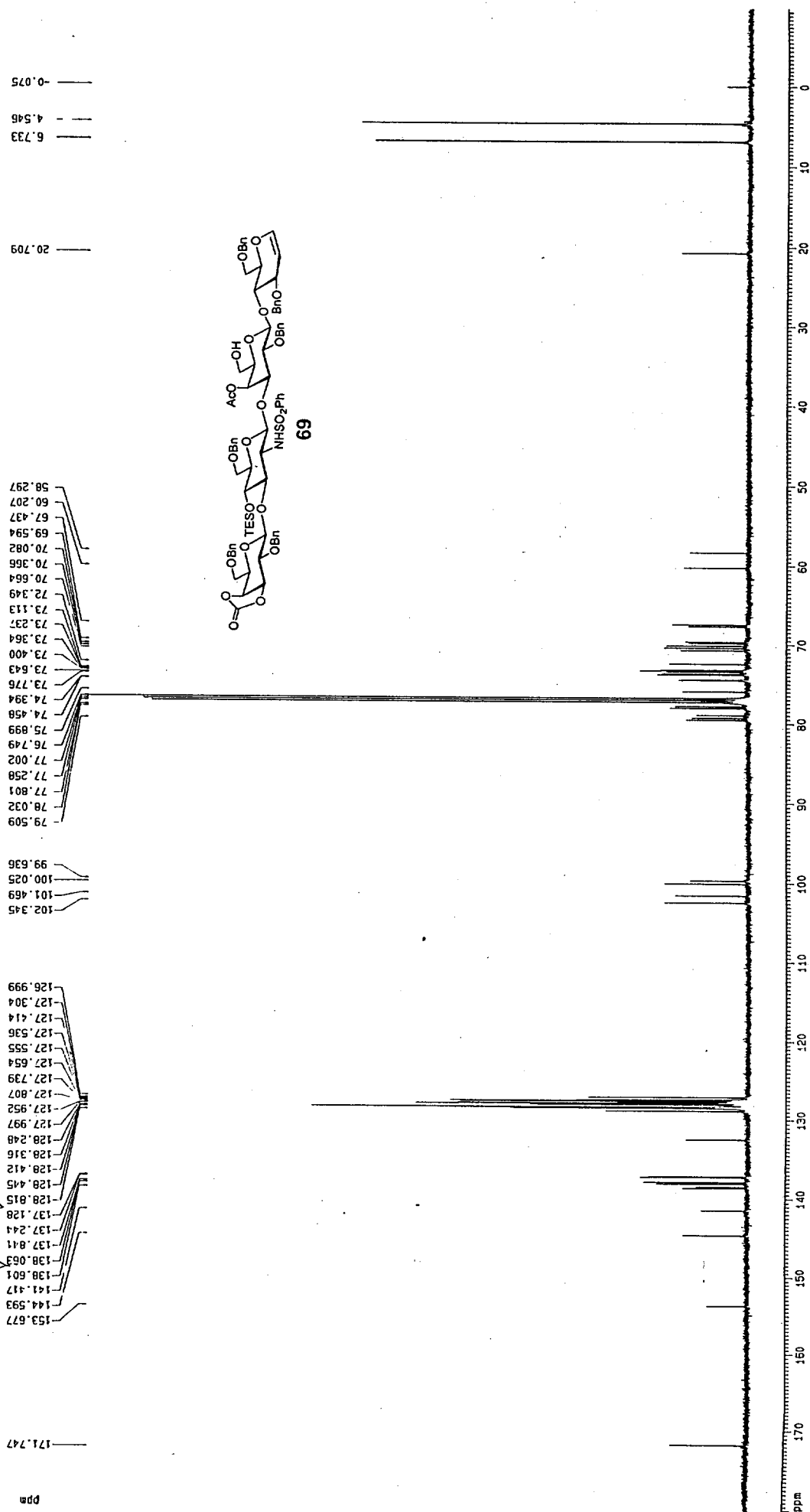
Direct roll-over (B) in 125 MHz (C-107). Jul. 14, 1998



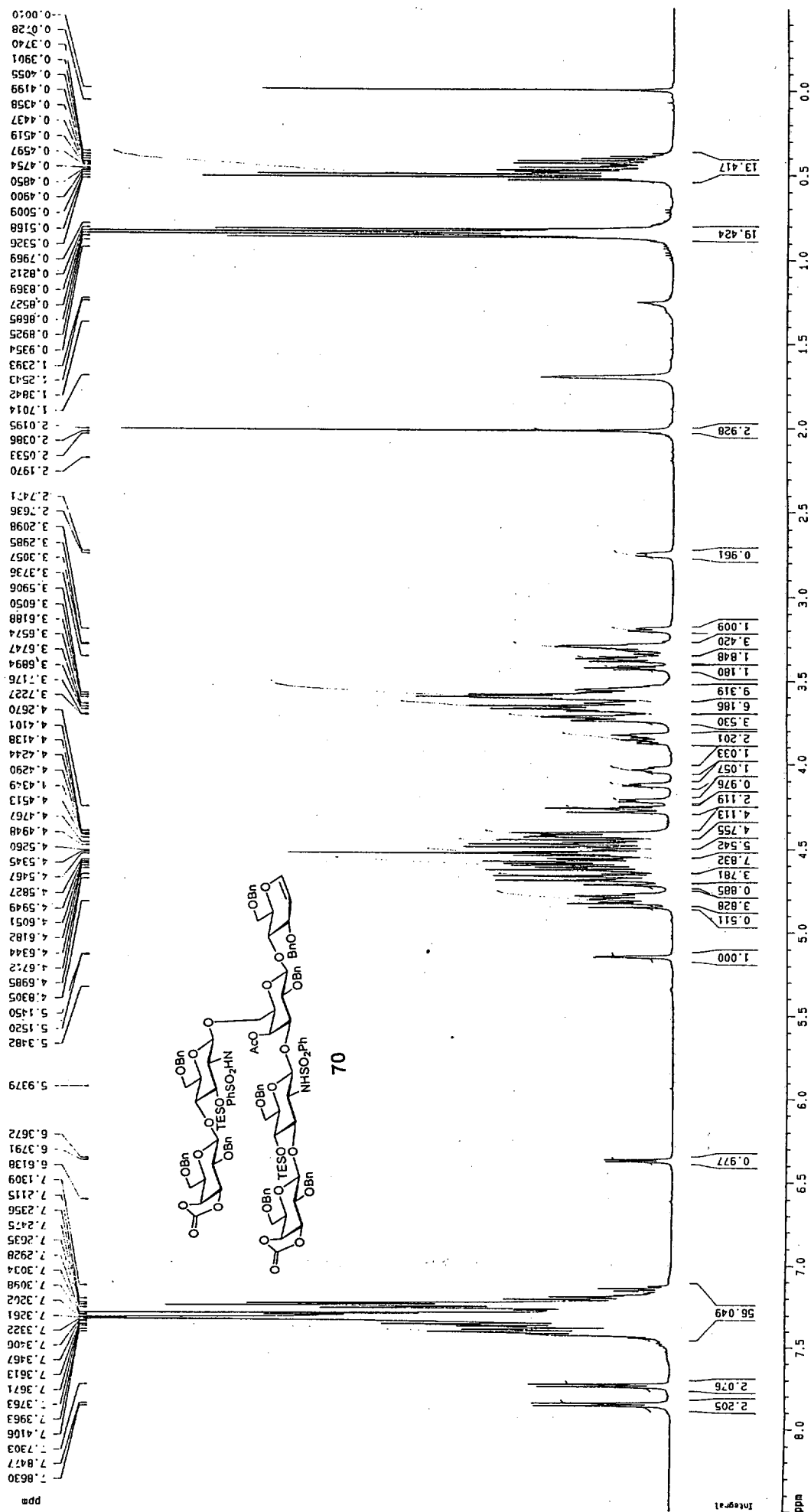
Acceptor (tetra) of 2+4 for Major N3 (H-118) August_10, 1998, 500MHz*.



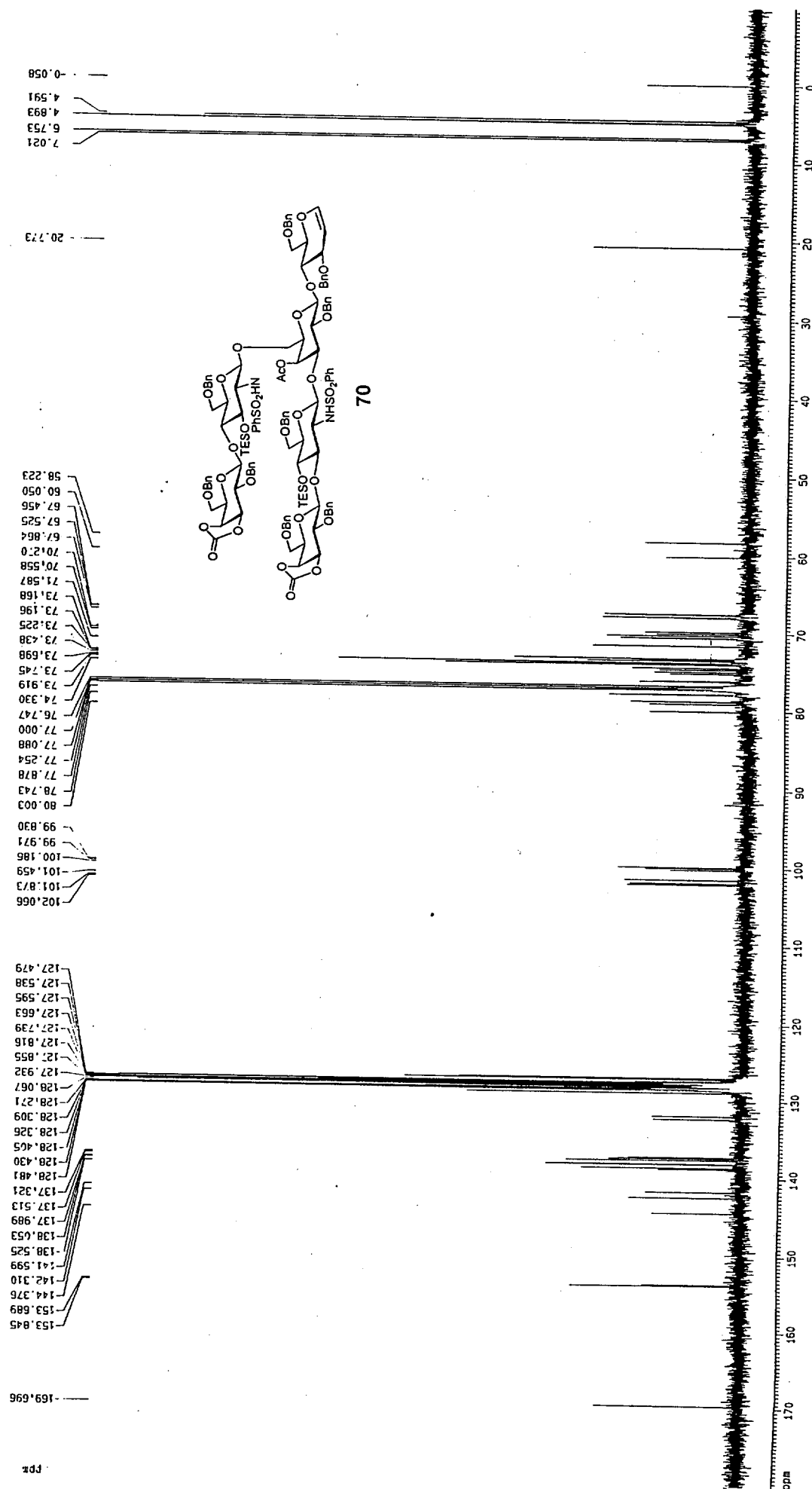
Acceptor of 2+4 for Major N3 (C-110). August_10, 1998. 125MHz*.



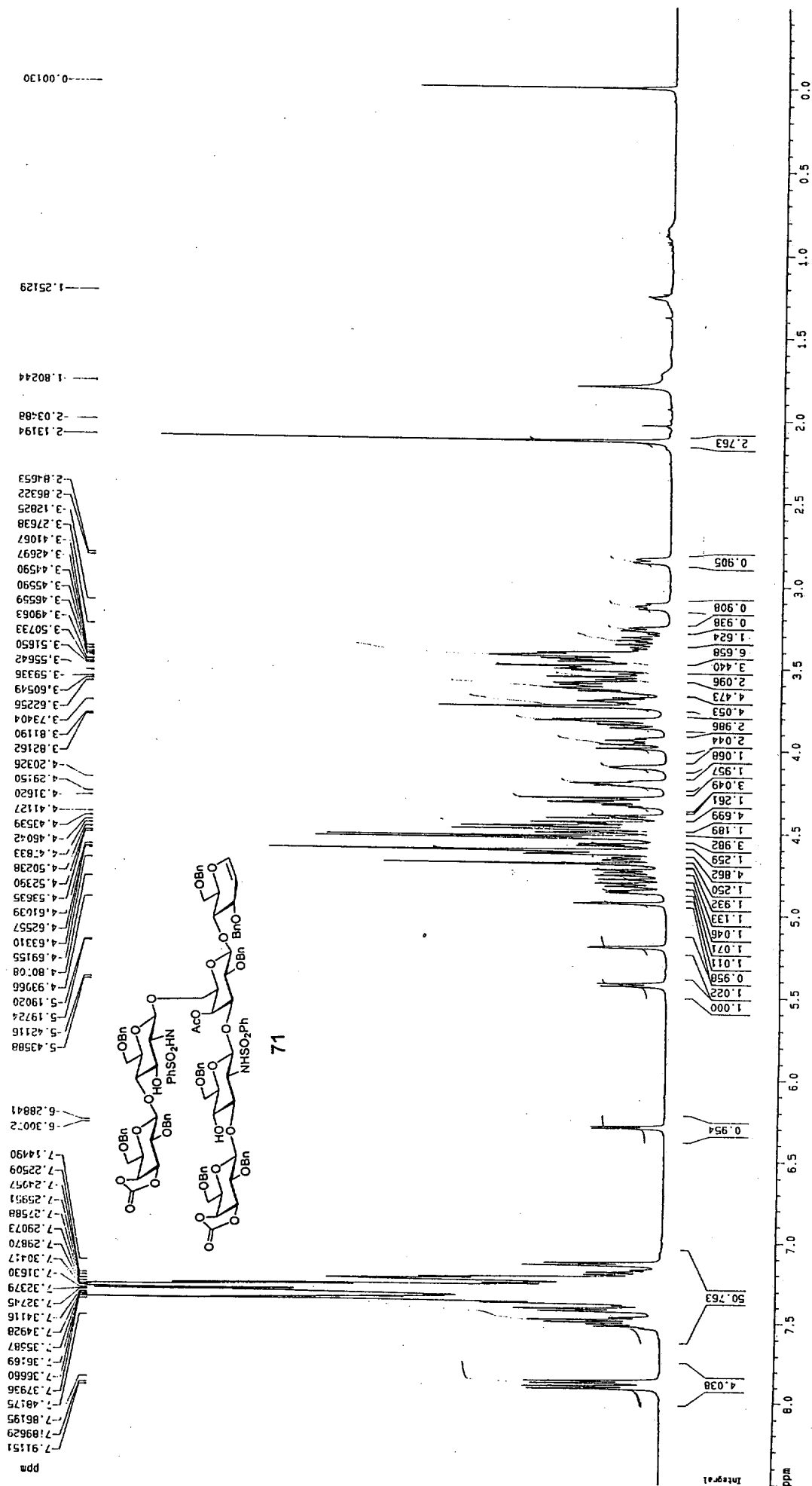
2+4 for MJ N3 H-119 in 500 MHz, Aug. 13, 1998



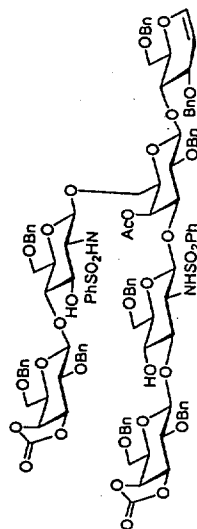
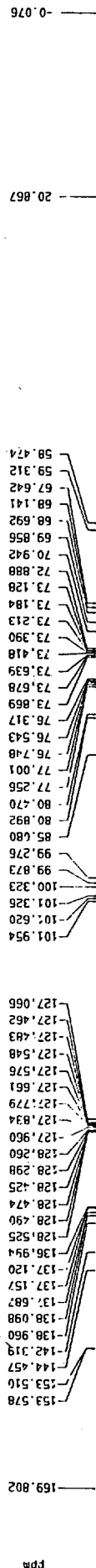
244 for MJ N3 C-111 in 125 MHz, Aug. 13, 1998



Acceptor of difluorosylation for MJ N3, H-121 in 500 MHz, Aug. 16, 1998



Acceptor of Difucosylation for MJ N3, C-112 in 125 MHz, Aug. 16, 1998

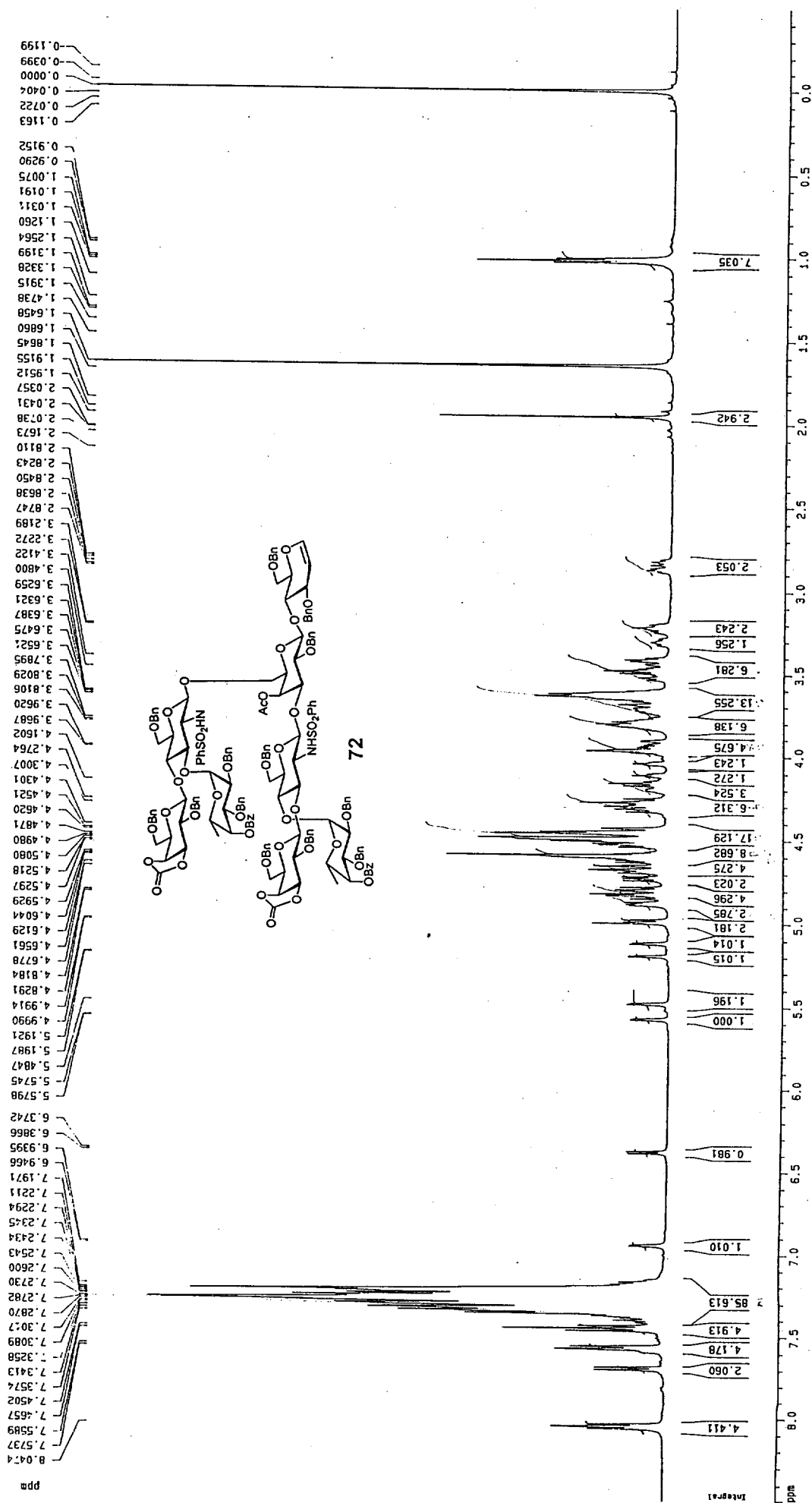


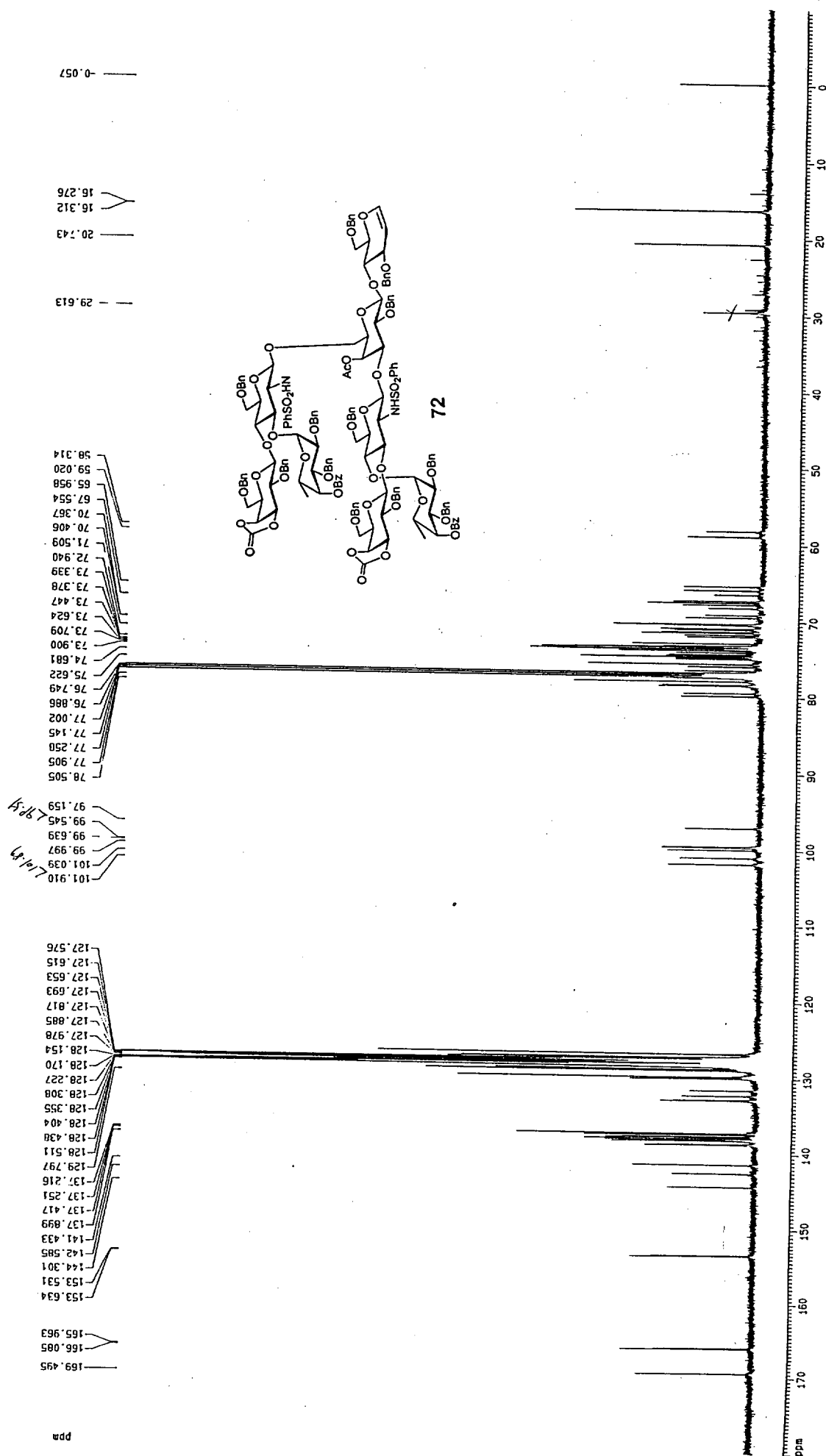
71

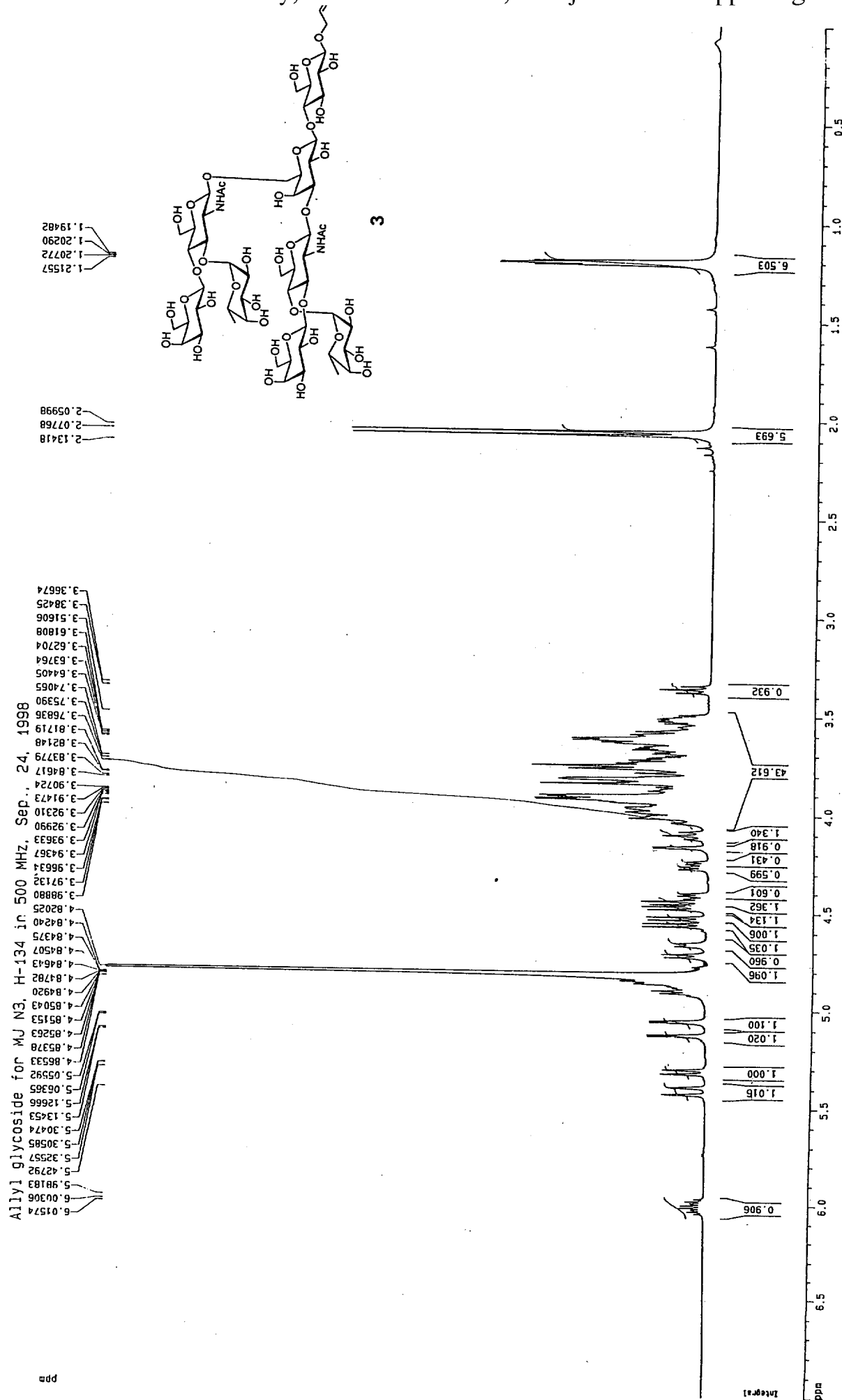


100-4-0-5

Difucosylation for MJ N3 H-126 in 500 MHz, Aug. 28, 1998







Allyl glycoside for MJ N3, C-116 in 125 MHz, Sep. 27, 1998

ppm
173.142
172.670

131.657

117.126

101.471

101.248

100.993

100.237

99.368

99.202

97.035

96.402

80.214

77.427

74.290

73.300

73.204

73.061

72.837

71.735

71.229

70.832

70.692

70.331

70.285

69.410

69.064

68.878

67.802

67.516

66.725

66.084

65.230

65.116

60.040

59.876

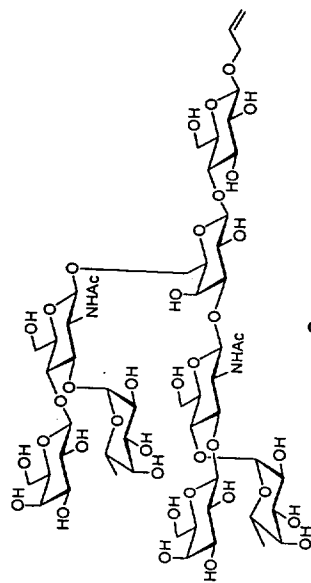
58.142

54.260

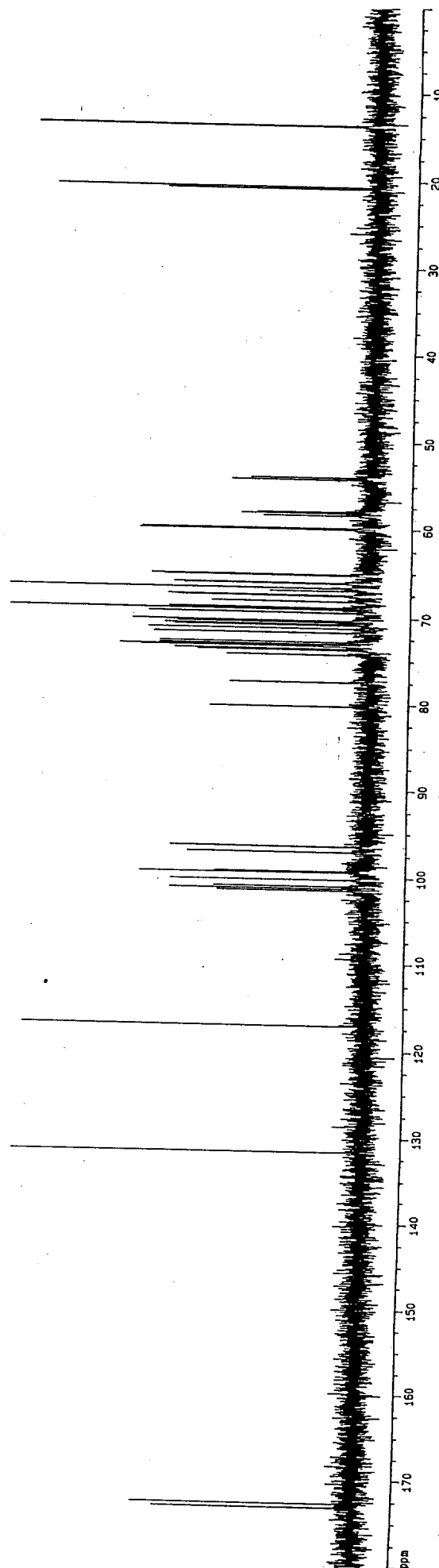
54.032

13.749
13.682

20.890
20.664



3



Major N3 (synthetic one) in D2O, H-129, Sep. 4, 1998

